

There is a Diamond Shamrock Listed
for Painesville, OH - OHD092621234

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Not RCRA
5/16/84
0.2

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
DIAMOND SHAMROCK ONE-ACRE SITE
#OHD 980-679-948

EPA Region 5 Records Ctr.



283972

Diamond Shamrock Corporation used their One-Acre Site as the company's hazardous waste landfill between 1963 and 1970. Located in Lake County, between the villages of Fairport Harbor and Painesville-on-the-Lake, it lies north of State Route 535 along the Lake Erie shore. The wastes deposited included both hazardous and non-hazardous materials, as outlined in the attached waste inventory provided by Diamond Shamrock. Upon closure, the site was graded, fenced and later ground water monitoring wells were installed. The landfill extends as close as 50 feet from the sloping bank which forms the lake shore. Erosion of the shorelines and the potential it creates for release of the landfill's toxic contents is of major concern to OEPA. In response, Diamond Shamrock developed a plan for shoreline protection and installed a seawall of gabions to slow the natural erosion rate.

Ground watering monitoring is on-going, but as yet there has been no evidence of contaminants released to ground water. The soils and subsoils in the area have slow permeability, which should reduce the rate of ground water/contaminant movement.

There is little potential for drinking water contamination; all but a few residents have tied into the municipal water supply whose Lake Erie intakes are located several miles west of the landfill.

Surface water contamination, namely of Lake Erie, is the primary concern at this site. As previously mentioned, the close proximity of the fill to the lake and shoreline erosion may allow contaminants to reach the water. Diamond has made some efforts to protect against erosion but further action may be needed.

As the responsible party in this case, Diamond Shamrock is currently working with OEPA to plan for and control potential problems. Continued monitoring, leachate collection, and waste removal are alternatives under consideration. The site has been ruled out as an NPL candidate after an HRS evaluation indicated it (One-Acre Site) did not pose a significant threat to health or the environment. There has been no observed release to the environment and the integrity of the site so far has been preserved. We recommend a medium priority on the One-Acre Site for continued District Office enforcement activities.

PW:km

OK for inspection - Jim Mayka 6/25/84



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
OH D990679948

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)

(C) Diamond Shamrock - One Acre Site

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

(C) State Rte. 535, North of

03 CITY

Painesville

04 STATE

05 ZIP CODE

06 COUNTY

07 COUNTY CODE

08 CONG. DIST.

OH

44077

Lake

085

11

09 COORDINATES LATITUDE

41° 45' 37" N

LONGITUDE

081° 14' 50" W

Perry, OH

SW/4 Perry 15° Quad.

10 DIRECTIONS TO SITE (Starting from nearest public road)

From Cleveland, Rte. 2 east to Rte. 535 exit North on 535, follow as it turns eastward (Fairport Harbor Nursery Rd). Site is on north side of road, East of Erie Coke & west of Twp. Park.

III. RESPONSIBLE PARTIES

01 OWNER (if known)

Diamond Shamrock Corp.

02 STREET (Business, mailing, residential)

1100 Superior Ave.

03 CITY

Cleveland

04 STATE

05 ZIP CODE

06 TELEPHONE NUMBER

OH

44114

(216) 694-5000

07 OPERATOR (if known and different from owner)

Same as above

08 STREET (Business, mailing, residential)

09 CITY

10 STATE

11 ZIP CODE

12 TELEPHONE NUMBER

()

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL:

(Agency name)

☐ C. STATE

☐ D. COUNTY

☐ E. MUNICIPAL

☐ F. OTHER:

(Specify)

☐ G. UNKNOWN

14 OWNER-OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: / /

MONTH DAY YEAR

☐ B. UNCONTROLLED WASTE SITE (RCRA 103(c)) DATE RECEIVED: / /

MONTH DAY YEAR

☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES

DATE

11/21/83

☐ NO

MONTH DAY YEAR

BY (Check all that apply)

☐ A. EPA

☐ B. EPA CONTRACTOR

☒ C. STATE

☐ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL

☐ F. OTHER:

(Specify)

Multiple Inspections

CONTRACTOR NAME(S):

02 SITE STATUS (Check one)

☐ A. ACTIVE

☒ B. INACTIVE

☐ C. UNKNOWN

03 YEARS OF OPERATION

1963

1970

BEGINNING YEAR

ENDING YEAR

☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Pesticides (Toxic/Persistent) Solvents (Toxic/Ignitable)
Organics (Toxic/Persistent) Heavy Metals (Toxic/Persistent)
Acids and Bases (Corrosive)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Contamination of Lake Erie by lake erosion of landfill containment system - Surface Water (Population/Environment)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high/medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH

(Inspection required promptly)

☒ B. MEDIUM

(Inspection required)

☐ C. LOW

(Inspection time a matter of days)

☐ D. NONE

(No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT

Steve Tuckerman

02 OF (Agency/Organization)

OEPA, NEDO/DHMM

03 TELEPHONE NUMBER

(216) 425-9171

04 PERSON RESPONSIBLE FOR ASSESSMENT

Pam Wicks

05 AGENCY

OEPA

06 ORGANIZATION

NEDO/DHMM

07 TELEPHONE NUMBER

(216) 425-9171

08 DATE

3/16/84

MONTH DAY YEAR

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)	02 WASTE QUANTITY AT SITE <i>(Measures of waste quantities must be measured)</i>	03 WASTE CHARACTERISTICS (Check all that apply)
<input checked="" type="checkbox"/> A SOLID <input type="checkbox"/> B POWDER, FINES <input checked="" type="checkbox"/> C SLUDGE <input type="checkbox"/> D OTHER _____ <i>(Specify)</i>	<input type="checkbox"/> E SLURRY <input type="checkbox"/> F LIQUID <input type="checkbox"/> G GAS TONS <u>6.2</u> CUBIC YARDS _____ NO. OF DRUMS <u>2600 min.</u>	<input checked="" type="checkbox"/> A TOXIC <input type="checkbox"/> B CORROSIVE <input type="checkbox"/> C RADIOACTIVE <input checked="" type="checkbox"/> D PERSISTENT <input type="checkbox"/> E SOLUBLE <input type="checkbox"/> F INFECTIOUS <input type="checkbox"/> G FLAMMABLE <input checked="" type="checkbox"/> H IGNITABLE <input type="checkbox"/> I HIGHLY VOLATILE <input type="checkbox"/> J EXPLOSIVE <input type="checkbox"/> K REACTIVE <input type="checkbox"/> L INCOMPATIBLE <input type="checkbox"/> M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLL	SLUDGE	UK	Tons	Chlorowax materials
OLW	OILY WASTE	85	Drums	includes coal tar mixture
SOL	SOLVENTS	UK	Drums	misc. waste solvents, Varnolene
PSC	PESTICIDES	UK	Drums	IPN & DACONIL, DACTHAL
OCC	OTHER ORGANIC CHEMICALS	UK	Drums	Variety of chlorinated & non
IOC	INORGANIC CHEMICALS	UK	Drums	Antimony oxide, Zinc chloride, Ferrochrome
ACD	ACIDS	14	Drums	Cyanuric, Sulfuric & Chromic
BAS	BASES	76	Drums	Caustic Soda, Potash
MES	HEAVY METALS	UK	Drums	Chromium

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

[illegible]

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FCS			FDS		
FCS			FDS		
FCS			FDS		3
FCS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state laws, sample analysis, reports)

Waste Disposal Site Inventory Diamond Shamrock, 9/30/81



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
04 0980679948

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: < 4700

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

4 monitoring wells around site (N, S, E, W) but no evidence so far of organics escaping from site per lab analysis. Soil types in area have slow permeability which should slow rate of groundwater movement and contaminant movement.

01 ☒ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: < 1400

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

Concerned with proximity to Lake Erie and potential that shoreline erosion will allow contaminants to escape from landfill.

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

None reported (N.R.)

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

N.R.

01 ☐ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

Not likely since wastes are buried and no report of contamination.

01 ☐ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

(AC/BS)

01 ☒ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: < 100

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

There are a few residents in vicinity (Painesville on Lake) who never tied into the Painesville water system. Painesville intake is several miles west of site. Several old industrial intakes nearby but no drinking water intakes close enough to be affected.

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: 0

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

01 ☒ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: < 1400

02 ☐ OBSERVED (DATE _____)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

If fill has outbreak into Lake Erie, Painesville on the Lake residents and township park users would have exposure potential.



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PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

OH 0980679948

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

N.R.

01 ☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include names of species)

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

Fish could be affected if contaminants reach the lake

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

fresh fish from Lake Erie are caught regularly; fish affected by potential landfill contamination may be eaten.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
Spills/runoff/standing liquids/leaking drums

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Potential for lake's shoreline action to erode away side of landfill, allowing contamination.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

N.R.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

N.R.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

N.R.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED:

Approx. 4700

IV. COMMENTS

OEPA activity, in conjunction with Diamond Shamrock, has resulted in efforts to protect shore from further erosion. More action is pending, including proposals for environmental monitoring & possible waste removal. Must make sure no further degradation of shore at site takes place.

V. SOURCES OF INFORMATION (Cite specific references e.g. state files, sample analysis, reports)

I.O.C. Steve Tuckerman to Roger Hannahs, 12/22/83
Correspondence from OEPA to Diamond Shamrock, 1/9/84
Lab Analyses by Environmental Testing and Certification - 5/14/82 - 4 wells.
Inventory of Municipal Water Supply Systems by County - Ohio Report #24,
EPA FORM 2070-120-811 Ohio Water Inventory, ODNR 1977.
Soil Survey of Lake County, Ohio - USDA Jan. 1979.